

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 8/31/20 between Maple Lane Real Estate, LLC referred to here as "Landowner", and Houff Corporation, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Rockingham County, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
153-(A)-L111			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:     ☒ The Landowner is the sole owner of the properties identified herein.  
                      ☐ The Landowner is one of multiple owners of the properties identified herein.

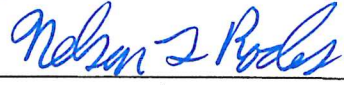
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.


<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <b>Maple Lane Real Estate, LLC</b>	Mailing Address 5403 Lawyer Road Port Republic, VA 24471	Landowner Signature 
By: <u>Nelson Rodes</u>	Phone No. <u>540-234-9246</u>	
Title: <u>Partner</u>		
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input checked="" type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Houff Corporation, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name Timothy J. Grove	Mailing Address 97 Railside Dr., Weyers Cave, VA 24486	Permittee- Authorized Representative Signature 
Title: Biosolids Manager	Phone No. 540-234-9246	



# VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Houff Corporation

County or City: Rockingham

Landowner: Maple Lane Real Estate, LLC

## Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

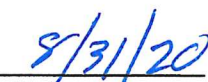
I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

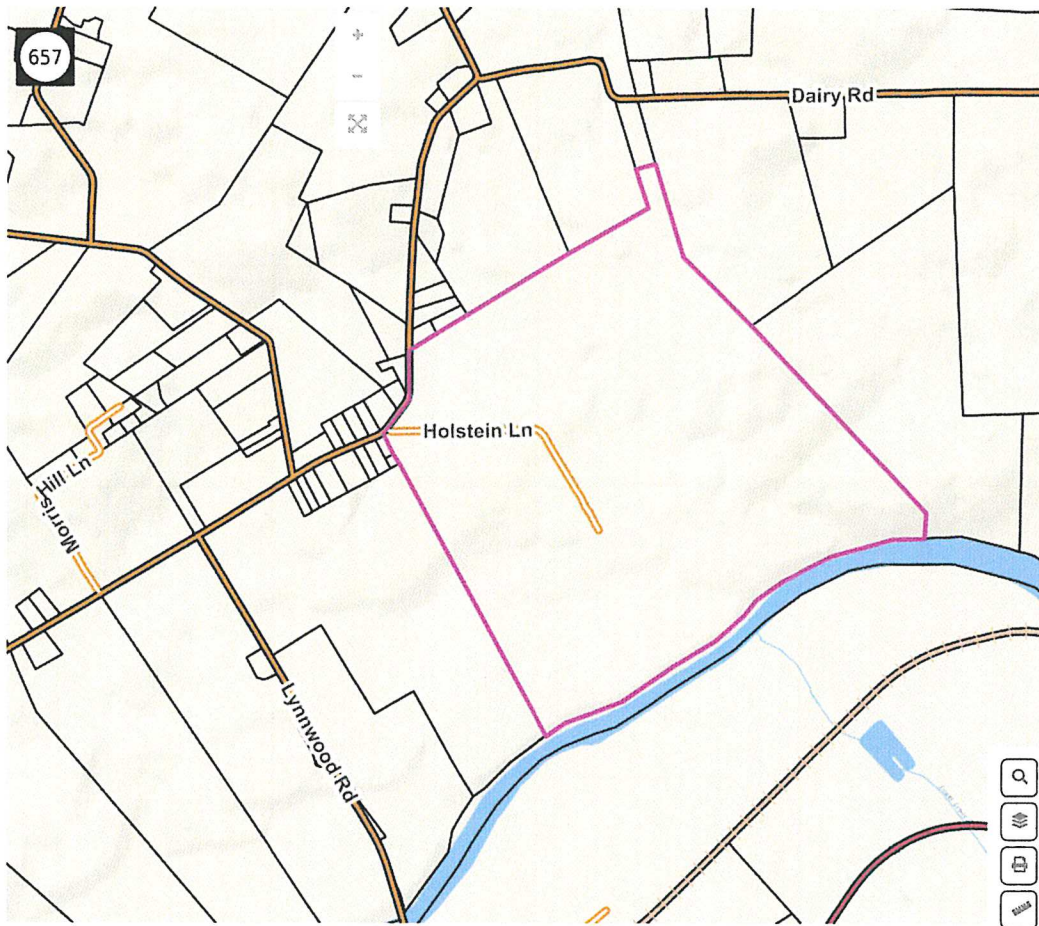
1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

  
Landowner's Signature

  
Date



#### IDENTIFY

Get a detailed property report:

[Get Just the Facts](#)

[View Land Card](#)

[Identify Adjoining Parcels](#)

Parcels

#### ▲ Parcel Details

Tax Map #

153-(A)- LIII

Owner Name

MAPLE LANE REAL ESTATE LLC

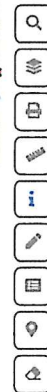
Owner Address

PORT REPUBLIC, VA 24471

#### ▲ Lot Information

Primary Zone

A1



Sources: Esri, DigitalGlobe, Earthstar Geographics, CNES/Airbus DS, GeoEye, USDA FSA, I

## SEWAGE SLUDGE APPLICATION AGREEMENT

This sludge application agreement is made on this date 6/10/10 between Maple Lane Farm, LLC referred to here as "landowner" and Houff's Feed and Fertilizer Co., Inc., referred to as the "Permittee".

Landowner is the owner of agricultural land shown on the attached maps and designated there as site KEGLEY. Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of sewage sludge on landowner's land in amounts and in a manner authorized by VPA Permit number VPA01566 which is held by the Permittee.

Landowner acknowledges that the appropriate application of sewage sludge will be beneficial in providing fertilizer and soil conditioning to the property. Moreover, landowner acknowledges having been expressly advised that, in order to protect public health, the following site restrictions must be adhered to when sewage sludge receives Class B treatment for pathogen reduction:

1. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge;
2. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil;
3. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;
4. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge;
5. Animals shall not be grazed on the land for 30 days after application of sewage sludge;
6. Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board;
7. Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge;
8. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
9. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).

Permittee agrees to notify landowner or landowner's designee of the proposed schedule for sludge application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below:

Landowner(s): Stephen M. Kegley for  
Maple Lane Farm LLC  
Signature

Permittee:

Signature

RECEIVED  
JUN 14 2010

Stephen M. Kegley  
Printed Name  
5477 Halden Dr  
Address  
McKeesville Va. 22840  
City, State, Zip

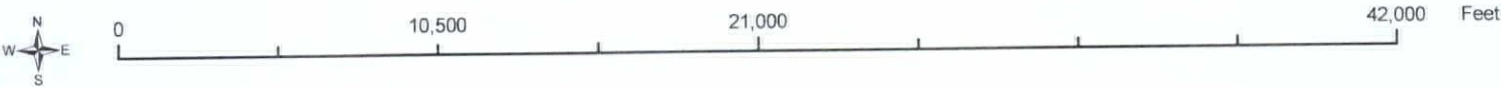
To: \_\_\_\_\_  
FILE: \_\_\_\_\_

Houff's Feed & Fertilizer Co., Inc.  
97 Railside Dr.  
Weyers Cave, Va. 24486

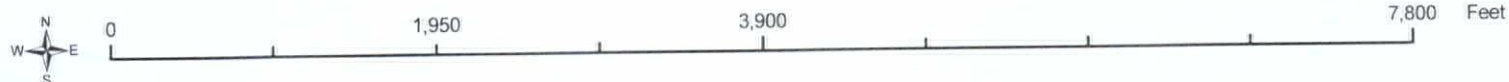


Site: KEGLEY  
Owner: Maple Lane Farm LLC  
Operator: Steve Kegley

General Location Map



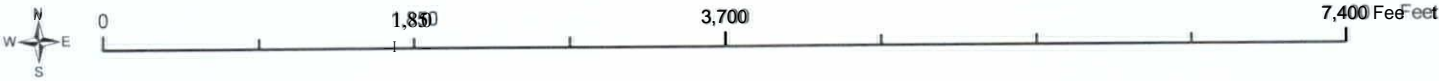
## Topographic Map





Site: KEGLEY  
Owner: Maple Lane Farm LLC  
Operator: Steve Kegley

Soils Map

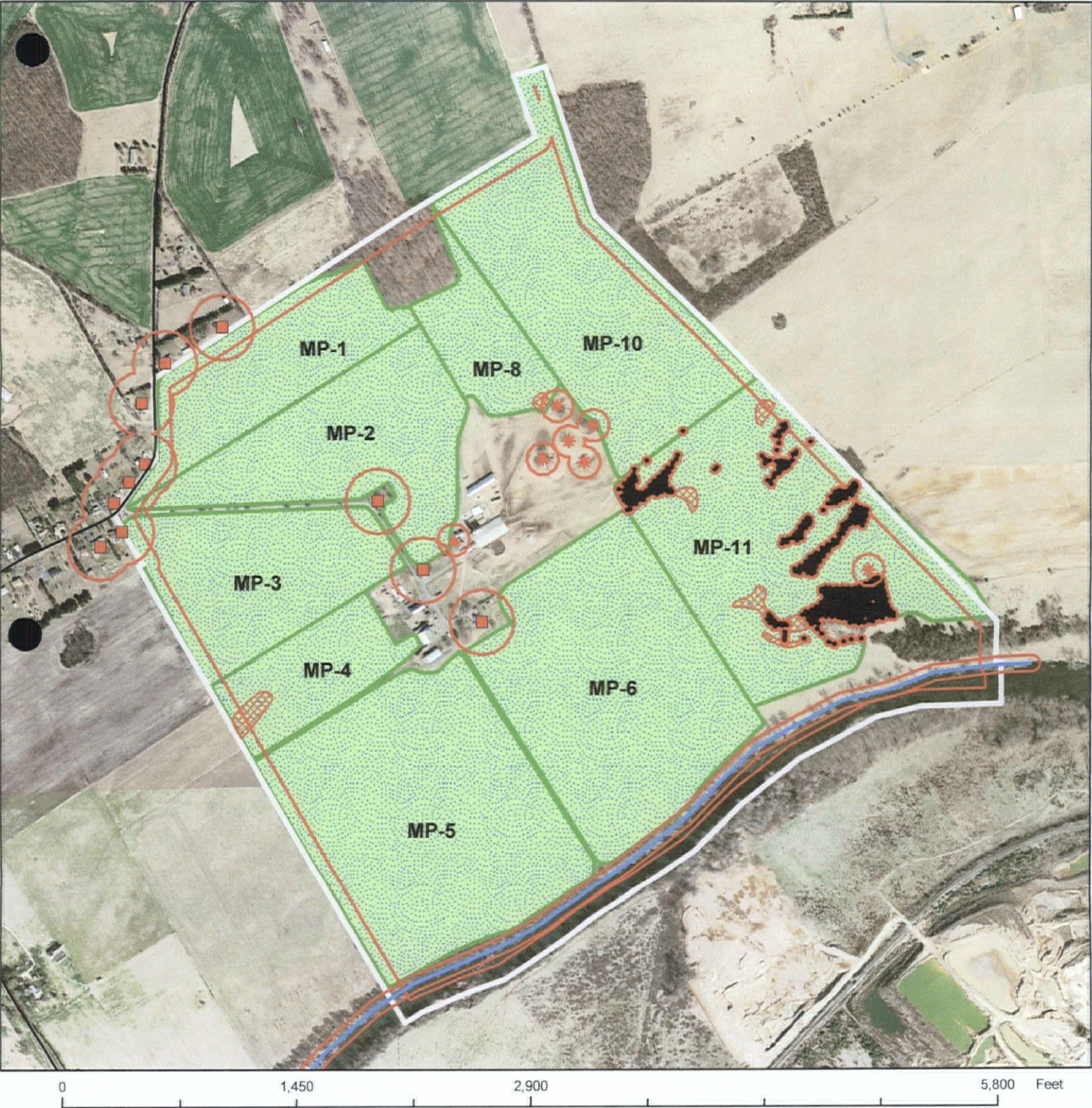


Rockingham Soils

KEGLEY Fields







■ KEGLEY Houses (200 ft buffer)	— KEGLEY Roads (10 ft buffer)
• KEGLEY Rocks (25 ft buffer)	▨ KEGLEY Steep Land
▲ KEGLEY Wells (100 ft buffer)	— KEGLEY Property Lines (100 ft buffer)
* KEGLEY Sinkholes (100 ft buffer)	■ KEGLEY Fields
— KEGLEY Streams (50 ft buffer)	





Report Number: 10-132-0533

Account Number: 70095



A&amp;L Eastern Laboratories, Inc.

7621 Whiteline Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: HOUFF FEED & FERT  
97 RAILSIDE DR  
WEYERS CAVE VA 24486

Grower:  
KEGLEY

Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 05/12/2010

Date Of Analysis: 05/13/2010

Date Of Report: 05/14/2010

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
» pH	15788	2.2	L 8	84	176	VH			129	H	106	M	943	M			6.1	6.84	0.9	6.9
• P-2, P-3	15790	2.8	M 9	94	156	VH			66	L	129	M	1302	H			6.3	6.84	0.9	8.7
• P-4	15791	2.4	L 8	84	107	H			134	H	193	H	1468	H			6.7	6.89	0.4	9.7
VP-5	15792	2.6	M 8	88	140	VH			148	H	198	H	1509	H			6.8	6.90	0.3	9.9
• MP-4	15793	3.5	M 10	108	195	VH			143	H	152	M	1198	M			6.2	6.82	1.1	8.7

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS me/cm	Cl ppm	Al ppm
6	4.8	12.8	88.3		13.7																	
7	1.9	12.4	74.8		10.5																	
8	3.5	16.6	75.7		4.5																	
9	3.8	16.7	76.2		2.9																	
10	4.2	14.6	68.9		12.1																	

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), me/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts me/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucie McGroary*

Paucie McGroary

Report Number: 10-132-0533

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**A&L Eastern Laboratories, Inc.**

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Grower:  
KEGLEY

Farm ID:

**SOIL ANALYSIS REPORT**

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Mehlich 3

Date Received: 05/12/2010

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Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
MP-3	15794	3.4	M 10	106	287	VH			152	H	124	M	1211	M			5.9	6.78	1.5	9.0
MP-1, MP-2	15795	2.3	L 8	84	173	VH			132	H	126	M	1230	H			6.5	6.87	0.6	8.1
MP-8	15796	3.3	M 10	100	321	VH			164	H	192	M	1585	H			6.3	6.81	1.2	11.1
MP-10	15797	2.5	L 8	88	253	VH			164	H	125	M	1208	H			6.4	6.86	0.7	8.2
MP-11	15798	3.6	M 10	109	109	H			162	H	185	H	1261	M			6.2	6.82	1.1	9.4

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
11	4.3	11.6	67.3		17.2																			
12	4.2	13.0	75.9		7.4																			
13	3.8	14.4	71.4		10.6																			
14	5.1	12.7	73.7		9.0																			
15	4.4	16.4	67.1		12.1																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary



Report Number: 10-132-0533

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www.allabs.com

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KEGLEY

Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 05/12/2010

Date Of Analysis: 05/13/2010

Date Of Report: 05/14/2010

Date Received: 03/12/2010

Date of Analysis: 03/10/2010

Date of Sample: 03/10/2010

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity		C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g	
MP-6	15799	2.6	M	88	226	VH			97	M	115	L	1584	H			6.4	6.84	0.9		10.0

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum	
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS me/cm	Rate	Cl ppm	Rate	Al ppm	
16	2.5	9.6	79.2		8.9																				

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

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Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

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